Douglas T Carrell

List of Publications by Year
in descending order

118	5,889	94433 37	79698 73
papers	citations	h-index	g-index

121	121	121	6419
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The impact of zinc and folic acid supplementation on sperm DNA methylation: results from the folic acid and zinc supplementation randomized clinical trial (FAZST). Fertility and Sterility, 2022, 117, 75-85.	1.0	10
2	Male adiposity, sperm parameters and reproductive hormones: An updated systematic review and collaborative metaâ€analysis. Obesity Reviews, 2021, 22, e13082.	6.5	68
3	Disruption of human meiotic telomere complex genes TERB1, TERB2 and MAJIN in men with non-obstructive azoospermia. Human Genetics, 2021, 140, 217-227.	3.8	31
4	Sperm DNA methylation changes after shortâ€term nut supplementation in healthy men consuming a Westernâ€style diet. Andrology, 2021, 9, 260-268.	3.5	9
5	PANDORA-seq expands the repertoire of regulatory small RNAs by overcoming RNA modifications. Nature Cell Biology, 2021, 23, 424-436.	10.3	115
6	Differential impacts of particulate air pollution exposure on early and late stages of spermatogenesis. Ecotoxicology and Environmental Safety, 2021, 220, 112419.	6.0	9
7	The hamster egg penetration test may decrease intracytoplasmic sperm injection utilization while maintaining high conventional fertilization rates. Asian Journal of Andrology, 2021, 23, 11.	1.6	2
8	Comparative single-cell analysis of biopsies clarifies pathogenic mechanisms in Klinefelter syndrome. American Journal of Human Genetics, 2021, 108, 1924-1945.	6.2	29
9	A Randomized Trial to Evaluate the Effects of Folic Acid and Zinc Supplementation on Male Fertility and Livebirth: Design and Baseline Characteristics. American Journal of Epidemiology, 2020, 189, 8-26.	3.4	6
10	Effect of Folic Acid and Zinc Supplementation in Men on Semen Quality and Live Birth Among Couples Undergoing Infertility Treatment. JAMA - Journal of the American Medical Association, 2020, 323, 35.	7.4	103
11	Differential DNA methylation pattern and sperm quality in men with varicocele. Fertility and Sterility, 2020, 114, 770-778.	1.0	22
12	Genetic dissection of spermatogenic arrest through exome analysis: clinical implications for the management of azoospermic men. Genetics in Medicine, 2020, 22, 1956-1966.	2.4	88
13	The Role of the Epididymis and the Contribution of Epididymosomes to Mammalian Reproduction. International Journal of Molecular Sciences, 2020, 21, 5377.	4.1	123
14	The combined effect of obesity and aging on human sperm DNA methylation signatures: inclusion of BMI in the paternal germ line age prediction model. Scientific Reports, 2020, 10, 15409.	3.3	8
15	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. PLoS Genetics, 2020, 16, e1008756.	3.5	11
16	AUTHOR REPLY. Urology, 2020, 140, 75-76.	1.0	0
17	Microfluidic System for Rapid Isolation of Sperm From Microdissection TESE Specimens. Urology, 2020, 140, 70-76.	1.0	9
18	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0

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19	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
20	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
21	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
22	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
23	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
24	Diet and sperm quality: Nutrients, foods and dietary patterns. Reproductive Biology, 2019, 19, 219-224.	1.9	80
25	Sperm DNA Fragmentation: Consequences for Reproduction. Advances in Experimental Medicine and Biology, 2019, 1166, 87-105.	1.6	43
26	The Sperm Epigenome: Implications for Assisted Reproductive Technologies. Advances in Experimental Medicine and Biology, 2019, 1166, 47-56.	1.6	12
27	Rare mutations in the complement regulatory gene CSMD1 are associated with male and female infertility. Nature Communications, 2019, 10, 4626.	12.8	24
28	Using Polygenic Scores in Social Science Research: Unraveling Childlessness. Frontiers in Sociology, 2019, 4, 74.	2.0	4
29	Male exposure to bisphenol A (BPA) and semen quality in the Home Observation of Periconceptional Exposures (HOPE) cohort. Reproductive Toxicology, 2019, 90, 82-87.	2.9	31
30	Adherence to the Mediterranean diet is positively associated with sperm motility: A cross-sectional analysis. Scientific Reports, 2019, 9, 3389.	3.3	32
31	Age-associated sperm DNA methylation patterns do not directly persist trans-generationally. Epigenetics and Chromatin, 2019, 12, 74.	3.9	21
32	The Expression of miRNAs in Human Ovaries, Oocytes, Extracellular Vesicles, and Early Embryos: A Systematic Review. Cells, 2019, 8, 1564.	4.1	39
33	Sperm-like-particle (SLP) behavior in curved microfluidic channels. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	18
34	Pre-screening method for somatic cell contamination in human sperm epigenetic studies. Systems Biology in Reproductive Medicine, 2018, 64, 146-155.	2.1	13
35	Do paternal semen parameters influence the birth weight or BMI of the offspring? A study from the Utah Population Database. Journal of Assisted Reproduction and Genetics, 2018, 35, 793-799.	2.5	11
36	The impact of ejaculatory abstinence on semen analysis parameters: a systematic review. Journal of Assisted Reproduction and Genetics, 2018, 35, 213-220.	2.5	54

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37	Use of secondary contraception following vasectomy: insights from the Pregnancy Risk Assessment Monitoring System, 2007â€“2011. Translational Andrology and Urology, 2018, 7, S264-S270.	1.4	0
38	Establishing a stable, repeatable platform for measuring changes in sperm DNA methylation. Clinical Epigenetics, 2018, 10, 119.	4.1	7
39	Paternal germ line aging: DNA methylation age prediction from human sperm. BMC Genomics, 2018, 19, 763.	2.8	67
40	Sperm epigenetics and aging. Translational Andrology and Urology, 2018, 7, S328-S335.	1.4	35
41	Increasing evidence of the role of the sperm epigenome in embryogenesis: oligoasthenoteratozoospermia, altered embryo DNA methylation, and miscarriage. Fertility and Sterility, 2018, 110, 401-402.	1.0	5
42	Proton-pump inhibitor use does not affect semen quality in subfertile men. Asian Journal of Andrology, 2018, 20, 290.	1.6	7
43	A systematic review and meta-analysis to determine the effect of sperm DNA damage on in vitro fertilization and intracytoplasmic sperm injection outcome. Asian Journal of Andrology, 2017, 19, 80.	1.6	292
44	Childhood Cancer Risk in the Siblings and Cousins of Men with Poor Semen Quality. Journal of Urology, 2017, 197, 898-905.	0.4	22
45	Sperm epigenetics in the study of male fertility, offspring health, and potential clinical applications. Systems Biology in Reproductive Medicine, 2017, 63, 69-76.	2.1	73
46	Conserved roles of mouse DUX and human DUX4 in activating cleavage-stage genes and MERVL/HERVL retrotransposons. Nature Genetics, 2017, 49, 925-934.	21.4	545
47	Obesity, male infertility, and the sperm epigenome. Fertility and Sterility, 2017, 107, 848-859.	1.0	210
48	Separation of sperm cells from samples containing high concentrations of white blood cells using a spiral channel. Biomicrofluidics, 2017, 11, 054106.	2.4	49
49	Impacts of Abstinence Time on Semen Parameters in a Large Population-based Cohort of Subfertile Men. Urology, 2017, 108, 90-95.	1.0	19
50	Review: Diagnosis and impact of sperm DNA alterations in assisted reproduction. Best Practice and Research in Clinical Obstetrics and Gynaecology, 2017, 44, 38-56.	2.8	115
51	Using sperm testing to improve patient and offspring health: rational, evidence-based care of the infertile male in the ART clinic. Translational Andrology and Urology, 2017, 6, S443-S445.	1.4	4
52	Risk of childhood mortality in family members of men with poor semen quality. Human Reproduction, 2016, 32, 239-247.	0.9	13
53	Cancer risk in first- and second-degree relatives of men with poor semen quality. Fertility and Sterility, 2016, 106, 731-738.	1.0	31
54	Subfertility increases risk of testicular cancer: evidence from population-based semen samples. Fertility and Sterility, 2016, 105, 322-328.e1.	1.0	100

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55	Decreased fecundity and sperm DNA methylation patterns. Fertility and Sterility, 2016, 105, 51-57.e3.	1.0	102
56	Intra-sample heterogeneity of sperm DNA methylation. Molecular Human Reproduction, 2015, 21, 313-319.	2.8	44
57	Reply: Sperm DNA damage and ART: sins of the fathers and the doctors?. Human Reproduction, 2015, 30, 492-492.	0.9	0
58	Sperm Concentration Is Poorly Associated With Hypoandrogenism in Infertile Men. Urology, 2015, 85, 1062-1067.	1.0	20
59	Male Factor Infertility and Clomiphene Citrate: A Meta-Analysisâ€"The Effect of Clomiphene Citrate on Oligospermia. Urology Practice, 2015, 2, 199-205.	0.5	9
60	Transcription and imprinting dynamics in developing postnatal male germline stem cells. Genes and Development, 2015, 29, 2312-2324.	5.9	61
61	Non-motile sperm cell separation using a spiral channel. Analytical Methods, 2015, 7, 8041-8047.	2.7	51
62	Aberrant sperm DNA methylation predicts male fertility status and embryo quality. Fertility and Sterility, 2015, 104, 1388-1397.e5.	1.0	153
63	Effect of male and female body mass index on pregnancy and live birth success after inÂvitro fertilization. Fertility and Sterility, 2015, 103, 388-395.	1.0	80
64	Micro-electrophoresis: a noninvasive method of sperm selection based on membrane charge. Fertility and Sterility, 2015, 103, 361-366.e3.	1.0	27
65	Age-Associated Sperm DNA Methylation Alterations: Possible Implications in Offspring Disease Susceptibility. PLoS Genetics, 2014, 10, e1004458.	3.5	238
66	Chromatin and Transcription Transitions of Mammalian Adult Germline Stem Cells and Spermatogenesis. Cell Stem Cell, 2014, 15, 239-253.	11.1	280
67	Announcing the first Andrology Award. Andrology, 2014, 2, 299-299.	3.5	0
68	Refined phenotyping, large cohorts, and collaborative research are vital for realizing the potential of genomics to transform care for male infertility. Fertility and Sterility, 2014, 102, 967.	1.0	0
69	Research Highlights: Highlights from the latest articles in advances in the understanding of sperm epigenetics. Epigenomics, 2013, 5, 21-24.	2.1	2
70	The â€˜harsh and the hassleâ€™ of science and the slide to irreproducibility: a concern that must be addressed by investigators and journals. Andrology, 2013, 1, 799-800.	3.5	3
71	Paternal aging and increased risk of congenital disease, psychiatric disorders, and cancer. , 2013, , 93-102.		2
72	Semen characteristics and aging: technical considerations regarding variability. , 2013, , 183-190.		2

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73	Hypermethylation of the MTHFR gene is common in sperm from couples with unexplained pregnancy loss. Epigenomics, 2013, 5, 22-3.	2.1	0
74	Aberrant methylation of the H19 imprinting control region may increase the risk of spontaneous abortion. Epigenomics, 2013, 5, 23-4.	2.1	1
75	Epigenetics of the male gamete. Fertility and Sterility, 2012, 97, 267-274.	1.0	240
76	The search for SNPs, CNVs, and epigenetic variants associated with the complex disease of male infertility. Systems Biology in Reproductive Medicine, 2011, 57, 17-26.	2.1	40
77	Understanding the Genetics of Male Infertility: Progress at the Bench and in the Clinic. Systems Biology in Reproductive Medicine, 2011, 57, 1-2.	2.1	3
78	Epigenetic marks in zebrafish sperm: insights into chromatin compaction, maintenance of pluripotency, and the role of the paternal genome after fertilization. Asian Journal of Andrology, 2011, 13, 620-621.	1.6	17
79	The human sperm epigenome and its potential role in embryonic development. Molecular Human Reproduction, 2010, 16, 37-47.	2.8	204
80	Preface. Systems Biology in Reproductive Medicine, 2010, 56, 205-206.	2.1	4
81	ANDROLOGY LAB CORNER*: The Clinical Implementation of Sperm Chromosome Aneuploidy Testing: Pitfalls and Promises. Journal of Andrology, 2008, 29, 124-133.	2.0	55
82	The aetiology of sperm protamine abnormalities and their potential impact on the sperm epigenome. Journal of Developmental and Physical Disabilities, 2008, 31, 537-545.	3.6	82
83	Guest Editors: Douglas T Carrell and Csilla. Reproductive BioMedicine Online, 2008, 16, 471-473.	2.4	0
84	Contributions of spermatozoa to embryogenesis: assays to evaluate their genetic and epigenetic fitness. Reproductive BioMedicine Online, 2008, 16, 474-484.	2.4	67
85	Use of automated imaging and analysis technology for the detection of aneuploidy in human sperm. Fertility and Sterility, 2008, 90, 434-437.	1.0	29
86	Male obesity and alteration in sperm parameters. Fertility and Sterility, 2008, 90, 2222-2225.	1.0	369
87	Paternal genetic and epigenetic influences on IVF outcome. Expert Review of Obstetrics and Gynecology, 2008, 3, 359-367.	0.4	3
88	Altered protamine expression and diminished spermatogenesis: what is the link?. Human Reproduction Update, 2007, 13, 313-327.	10.8	321
89	Polyploidy in mouse embryos derived from in vivo and in vitro fertilization is dependent on the timing of pregnant mare serum gonadotropin (PMSG) injection. Fertility and Sterility, 2007, 87, 1470-1472.	1.0	1
90	Comparative analysis of follicle morphology and oocyte diameter in four mammalian species (mouse,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	170

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91	Comparison of maturation, meiotic competence, and chromosome aneuploidy of oocytes derived from two protocols for in vitro culture of mouse secondary follicles. Journal of Assisted Reproduction and Genetics, 2005, 22, 347-354.	2.5	16
92	Seminal infection with Ralstonia picketti and cytolysosomal spermophagy in a previously fertile man. Fertility and Sterility, 2003, 79, 1665-1667.	1.0	10
93	Elevated sperm chromosome aneuploidy and apoptosis in patients with unexplained recurrent pregnancy loss. Obstetrics and Gynecology, 2003, 101, 1229-1235.	2.4	114
94	Ovarian Folliculogenesis: Emerging Role of In Vitro Maturation of Oocytes and Follicles in Clinical Practice. Clinical Obstetrics and Gynecology, 2003, 46, 239-253.	1.1	9
95	A brief review of current and proposed federal government regulation of assisted reproduction laboratories in the United States. Journal of Andrology, 2002, 23, 611-7.	2.0	5
96	Body mass index is inversely related to intra-follicular HCG concentrations, embryo quality and IVF outcome. Reproductive BioMedicine Online, 2001, 3, 109-111.	2.4	116
97	In Vitro Growth, Maturation, Fertilization, and Embryonic Development of Oocytes from Porcine Preantral Follicles. Biology of Reproduction, 2001, 64, 375-381.	2.7	141
98	Development of In Vitro-Matured Oocytes from Porcine Preantral Follicles Following Intracytoplasmic Sperm Injection. Biology of Reproduction, 2001, 65, 1579-1585.	2.7	47
99	A simplified coculture system using homologous, attached cumulus tissue results in improved human embryo morphology and pregnancy rates during in vitro fertilization. Journal of Assisted Reproduction and Genetics, 1999, 16, 344-349.	2.5	35
100	The correlation of sperm chromatin decondensation following in vitro exposure to heparin and sperm penetration rates. Journal of Assisted Reproduction and Genetics, 1998, 15, 560-564.	2.5	9
101	The Incidence of Antisperm Antibodies in Infertility Patients with a History of Cryptorchidism. Journal of Urology, 1994, 151, 381-383.	0.4	62
102	A Functional Analysis and the Potential Clinical Significance Of 7 Categories of Sperm Morphology. Journal of Urology, 1994, 151, 377-380.	0.4	16
103	The male biological clock. , 0, , 61-69.		0
104	The sperm epigenome: a role in embryogenesis and fetal health?. , 0, , 16-26.		0
105	Has the renewed interest in sperm RNA led to fresh insights? A critical review and hypothesis. , 0, , 38-49.		1
106	Sperm selection and ART outcome: a means to overcome the effects of aging and abnormal spermatogenesis?. , 0, , 165-173.		0
107	The role of the sperm centrosome in reproductive fitness. , 0, , 50-60.		2
108	The reproductive fitness of the human male gamete. , 0, , 1-5.		1

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109	Variability of human semen quality: caution in interpreting semen analysis data. , 0, , 174-182.		0
110	The sperm genome: effect of aneuploidies, structural variations, single nucleotide changes, and DNA damage on embryogenesis and development. , 0, , 6-15.		1
111	Imprinted gene anomalies in sperm. , 0, , 27-37.		1
112	The role of aging on fecundity in the male. , 0, , 70-81.		1
113	Aging, DNA damage, and reproductive outcome. , 0, , 82-92.		0
114	Sexual function in the aging male. , 0, , 103-115.		0
115	Supplements and replacement therapies for the aging male and their effects on reproductive fitness. , 0, , 116-128.		0
116	Environment and lifestyle effects on fertility. , 0, , 129-140.		0
117	Obesity and male infertility: is there an effect on embryogenesis?. , 0, , 141-148.		1
118	Intracytoplasmic sperm injection: does the sperm matter?. , 0, , 149-164.		0